

Q.1. How many times does $\sin x = 0$ in $[0, 2\pi]$? How many times does $\sin x = 1$ in $[0, 2\pi]$? How many times does $\sin x = -1$ in $[0, 2\pi]$?

Q.2. Find the equation of asymptote of $y = \tan^{-1} x$ and the value of $\lim_{x \rightarrow \infty} \tan^{-1} x$ and $\lim_{x \rightarrow -\infty} \tan^{-1} x$.

Q.3. Find the value of $\lim_{x \rightarrow 0} \frac{\sin x}{x}$ and $\lim_{x \rightarrow 0} \frac{\cos x - 1}{x^2}$ and $\lim_{x \rightarrow 0} \frac{e^x - 1}{x}$ and $\lim_{x \rightarrow 0} \frac{e^x + 1}{x^2}$.

Marks

UNIT—III

- VII (a) Evaluate (i) $\lim_{x \rightarrow 1} \left(\frac{x^2 + 4x - 5}{x^2 + x - 2} \right)$ (3) (ii) $\lim_{x \rightarrow 0} \left(\frac{1 - \cos 2x}{x^2} \right)$ (3) (3+3 = 6)
- (b) Using quotient rule show that $\frac{d}{dx} (\sec x) = \sec x \tan x$. (4)
- (c) Show that $\frac{d}{dx} [\log (x + \sqrt{1+x^2})] = \frac{1}{\sqrt{1+x^2}}$. (5)

Or

- VIII (a) Evaluate (i) $\lim_{x \rightarrow 2} \left(\frac{x^4 - 16}{x^2 - 32} \right)$ (3) (ii) $\lim_{\theta \rightarrow 0} \left(\frac{\sin 3\theta - \cos \theta}{\theta} \right)$ (3) (3+3 = 6)
- (b) Find the second derivative of $y = \sin^2 x$. (4)
- (c) Find the derivative of $\sin x$ by the method of first principles. (5)

UNIT—IV

- IX (a) Find the turning values of $y = x^3 - 3x^2 - 9x + 5$. (5)
- (b) A particle is projected vertically upwards and its height 'h' and time 't' are connected by, $h = 80t - 16t^2$. Find the greatest height attained and acceleration at that time. (5)
- (c) Find the maximum area of a rectangle whose perimeter is 100m. (5)

Or

- X (a) The distance 'S' meters travelled by a particle is given by $S = ae^{mt} + be^{-mt}$, where 't' represents the time. Show that the acceleration varies as the distance. (5)
- (b) Show that the maximum value of the function, $M = 2x^3 - 9x^2 + 12x$ is 5. (5)
- (c) A balloon is spherical in shape. Gas is escaping from it at the rate of 1000 cc/sec. How fast is the surface area shrinking when the radius is 15cm. (5)

Mathematics Question Of Polytechnic 1st Semester

G. Isac



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